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Page 12

AMENDMENTS TO THE SPECIFICATION

In the Specification:

The Examiner is kindly requested to replace paragraphs 46, 47, 75 and 165 with the following replacement paragraphs:

[0046]In some embodiments of the invention, the decoder of the MIMO link uses spatial Wiener filters, e.g., vector Wiener filters, to remove noise, so as to allow decoding of the additional layer of signals.

[0047]An aspect of some embodiments of the invention relates to transmitting analog encoded signals on a MIMO link. Optionally, analog television and/or radio signals are divided into a plurality of sub-bands, which are frequency translated onto a single band. In the receiver, a vector Wiener filter is optionally used to remove noise due to the MIMO transmission.

[0075]There is further provided in accordance with an exemplary embodiment of the invention, a method of transmitting data, comprising generating a plurality of streams at least partially carrying data which gracefully degrades with noise, transmitting the plurality of streams in parallel through a MIMO transmitter and receiving the plurality of streams by a MIMO receiver. Optionally, the method includes decoding the plurality of symbol streams by the MIMO receiver. Optionally, the MIMO receiver uses a spatial Wiener filter to decode the streams. Optionally, the streams include analog streams. Optionally, the streams include symbol streams that at least partially have a representation of data along a continuous analog range. Optionally, the streams include symbol streams that at least partially are selected from a constellation in which closer bins have closer values. Optionally, the streams include symbol streams that represent an overlap of coarse and refinement portions.

[0165]JSCC decoder 668 decodes the reconstructed signal streams to extract their coarse portions, ignoring the refinement portions as if they were noise. Thereafter, the reconstructed signals are optionally filtered by spatial Wiener filters, e.g., vector winner filters, to remove noise, and the refinement portions are extracted.

Applicants respectfully assert that the amendments and additions to the specification add no new matter over the disclosure of the application as filed.